

ABSTRACT

The present invention is directed to a releasable locking assembly for attaching a wear member to a support structure. It may be used with excavating equipment for attaching ground-engaging teeth to adaptors, lip shrouds to bucket lips, or other analogous uses. The wear member includes at least one pin-retainer-receiving opening in one side. The opening is tapered, being narrower at its outer surface and wider at its inner surface. The support structure includes at least one pin-receiving recess which generally aligns with the opening in the wear member when the wear member and the support structure are operatively coupled. The pin retainer is a frustoconically shaped cylinder which is threaded internally. It is inserted into the opening in the wear member. The wear member is slidably mounted onto the support structure. The pin is an elongate body which is externally threaded. It is screwed into the pin retainer by the application of torque force from a standard ratchet tool. The pin extends through the wear member and into the recess in the support structure to lock the wear member to the support structure. The pin may be released using a ratchet tool and removed from the pin retainer. The wear member may then be removed from the support structure.

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